



KOREAN PATENT ABSTRACTS

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LEE, JEONG CHEOL**(51) Int. Cl. **G10L 15/02**(54) **METHOD FOR SELECTING OPTIMUM
SYNTHESIS UNIT STREAM IN TEXT TO SPEECH
CONVERSION SYSTEM**

(57) Abstract:

PURPOSE: A method for selecting an optimum synthesis unit stream in a text to speech conversion system is to adjust various phoneme situations effectively and enhance a clearness of a synthesized sound.

CONSTITUTION: A triphone-based unit is defined as a standard synthesis unit. A text is inputted from the outside(301). The text inputted for synthesizing an arbitrary syllable is converted into a triphone stream by using a pronunciation conversion rule(302). Plural candidate triphones of respective triphones transmitted from a synthesis database are stored into a memory(303). The triphones is searched through a Viterbi searching operation(304). According to the result of the Viterbi searching operation, an optimum path having a minimum cumulative distortion is selected by limiting paths between states of the triphones(305). The optimum path having the minimum cumulative distortion is accumulated to the final state by using an Euclidean distance. When the Euclidean distance is calculated, a weight value is added thereto(307).

